



# N-Type ABC Comet Series

AIKO-A-MAH72Mw

Up to **24.0%**  
**600W-620W**



Product  
Warranty



Performance  
Warranty



red dot winner 2023

## Premium Appearance

No grid lines on the front

## Higher Power Output

Higher efficiency: 24.0%

Lower degradation: 1 year  $\leq 1.0\%$ , 2 -30 year  $\leq 0.35\%$

Better temperature coefficient:  $-0.26\%/^{\circ}\text{C}$

## Optimized Balance of System (BOS)

Significant savings on mounting structure, cabling, and labour cost

## Complete Set of Quality Management System

IEC 61730 (2016) IEC 61215 (2021)

ISO 9001:2015 Quality Management System

ISO 14001:2015 Environmental Management System

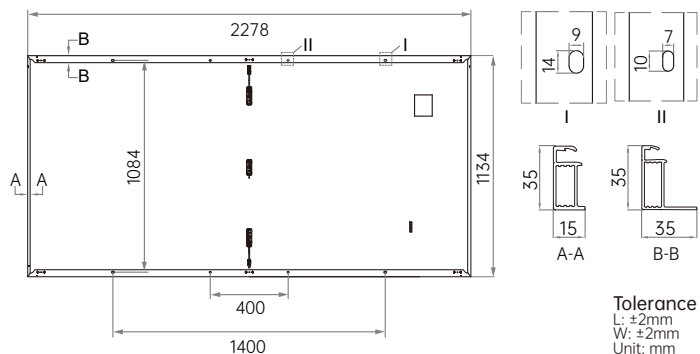
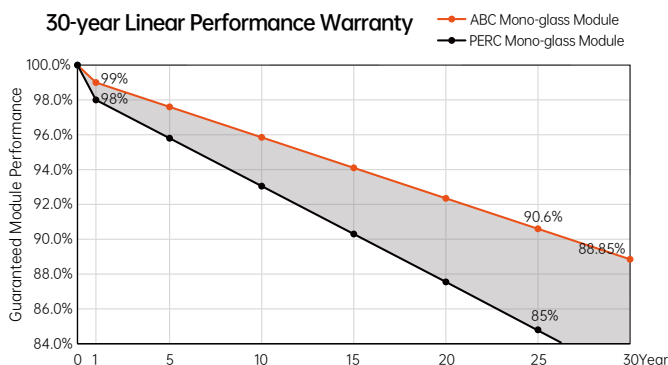
ISO 45001:2018 Occupational Safety and Management System



**620W**  
Output

**24.0%**  
Efficiency

 $\leq 1\%$   
First-year Degradation

 $\leq 0.35\%$   
Annual Degradation from Year 2-30

**Electrical Characteristics** (STC: AM1.5 1000W/m<sup>2</sup> 25°C NOCT: AM1.5 800W/m<sup>2</sup> 20°C 1m/s)

Power Tolerance: 0~ +3%

| Model                    | AIKO-A600-MAH72Mw |       | AIKO-A605-MAH72Mw |       | AIKO-A610-MAH72Mw |       | AIKO-A615-MAH72Mw |       | AIKO-A620-MAH72Mw |       |
|--------------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| Test Conditions          | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  |
| $P_{max}$ [W]            | 600               | 452   | 605               | 456   | 610               | 459   | 615               | 463   | 620               | 467   |
| $V_{oc}$ [V]             | 53.99             | 50.99 | 54.09             | 51.08 | 54.19             | 51.18 | 54.29             | 51.27 | 54.39             | 51.36 |
| $V_{mp}$ [V]             | 44.68             | 42.19 | 44.78             | 42.29 | 44.88             | 42.38 | 44.98             | 42.48 | 45.08             | 42.57 |
| $I_{sc}$ [A]             | 14.20             | 11.48 | 14.28             | 11.55 | 14.36             | 11.61 | 14.44             | 11.68 | 14.52             | 11.74 |
| $I_{mp}$ [A]             | 13.43             | 10.72 | 13.52             | 10.79 | 13.60             | 10.85 | 13.68             | 10.91 | 13.76             | 10.98 |
| <b>Module Efficiency</b> | <b>23.2%</b>      |       | <b>23.4%</b>      |       | <b>23.6%</b>      |       | <b>23.8%</b>      |       | <b>24.0%</b>      |       |

**Mechanical Specification**

|                        |                                                                |
|------------------------|----------------------------------------------------------------|
| Cell Type              | N-Type ABC                                                     |
| Front Cover Mono glass | 3.2 mm tempered glass                                          |
| Frame                  | Anodized aluminum                                              |
| Cable                  | 4mm <sup>2</sup> (IEC) 12AWG(UL)<br>350mm or Customized Length |
| No. of Cells           | 144(6*24)                                                      |
| Junction Box           | IP68, three bypass diodes                                      |
| Connector              | MC4 compatible                                                 |
| Weight                 | 28.2kg±3%                                                      |
| Dimension              | 2278*1134*35mm                                                 |
| Package Detail         | 31pcs per pallet/155 pcs per 20' GP/620pcs per 40' HQ          |

**Temperature Ratings (STC)**

|                                      |             |
|--------------------------------------|-------------|
| Temperature Coefficient of $I_{sc}$  | + 0.05%/ °C |
| Temperature Coefficient of $V_{oc}$  | - 0.22%/ °C |
| Temperature Coefficient of $P_{max}$ | - 0.26%/ °C |

**Installation Guide**

|                                 |                               |
|---------------------------------|-------------------------------|
| Operation Temperature           | - 40°C~+85°C                  |
| Maximum Series Fuse Rating      | 25A                           |
| Protection Class                | Class II                      |
| $V_{oc}$ and $I_{sc}$ Tolerance | ±3%                           |
| Maximum System Voltage          | DC1500V                       |
| Maximum Static Loading          | Front 5400Pa Back 2400Pa      |
| Hail Test                       | 25 mm diameter hail at 23 m/s |
| Fire Rating                     | IEC Class C                   |